

SPECIFICATION AMENDMENTS

Please replace the paragraphs beginning on page 4, line 4 and ending on page 4, line 9 with the following paragraphs:

Figure 5 is an embodiment of a current sense amplifier circuit ~~with thermal compensation.~~

~~Figure 6 is the current sense amplifier of a current sense circuit.~~

Figure 7 ~~6~~ is a current sense amplifier configured for a matrix of yellow LEDs.

Figure 8 ~~7~~ is a current sense amplifier configured for a matrix of red LEDs.

Figure 9 ~~8~~ is a current sense amplifier configured for a matrix of green LEDs.

Please replace the paragraph beginning on page 5, line 29 with the following paragraph:

For yellow signal, red signal or green signal applications, the jumper is connected at S1-1 & 2, ~~S1-3 & 4 or S1-5 & 6 and 2, S1-3 and 4, or S1-5 and 6,~~ respectively, as shown in Figure 5. The equivalent current sense circuit for a yellow signal, red signal or green signal is shown in detail in Figure 6, Figure 7 and Figure 8, respectively. The current across the yellow, a red or green LED matrix changes as the ambient temperature changes. At steady state, the voltage at U1-1 is 2.5 Vdc. The average voltage across RS is kept constant and is equal to $V_{RS} = 2.5 / (1 + R_{fb}/R_6)$. Notice that the low-pass filter components R20 & C1 has a pole at 6.3 Hz. The voltage across C1 is the average voltage across RS and a small amount of the 120 Hz ac component ($V_{C1_ac} = 6.3 \text{ Hz} / 120 \text{ Hz} * V_{RS_ac}$).